| For Your Convenience | |
|---|---|
| **Online Registration:** | Be sure to register your TV.<br>**United States** http://productregistration.sony.com<br>**Canada** http://www.SonyStyle.ca/registration |

http://www.sony.net/

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4-297-517-**14**(1)

4-297-517-**14**(1)

SONY

4-297-517-**14**(1)

# LCD
# Digital Color TV

**Operating Instructions**


Introducing Your New BRAVIA®

Getting Started

Operating the TV

Using Features

Using the Menus

Other Information


## Sony Customer Support

U.S.A.: www.sony.com/tvsupport
Canada: www.sony.ca/support

| United States | Canada |
|---|---|
| 1.800.222.SONY | 1.877.899.SONY |

Please Do Not Return
the Product to the Store

BRAVIA

KDL-32BX310

## Owner's Record

The model and serial numbers are located at the side and rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this TV.

Model Name

_____

Serial No.

_____

## CAUTION

To prevent electric shock and blade exposure, do not use this AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted.

- ❑ Operating on 120 V AC.
- ❑ Avoid operating the TV at temperatures below 41°F (5°C).

## Licensing Information

Macintosh is a trademark of Apple Inc., registered in the U.S. and other countries.

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Blu-ray Disc is a trademark.

"BRAVIA" and BRAVIA and [R] are trademarks or registered marks of Sony Corporation.

"PlayStation" is a registered trademark and "PS3" is a trademark of Sony Computer Entertainment Inc.

## Cleaning

When cleaning, be sure to unplug the power cord to avoid any chance of electric shock.

- Wipe the LCD screen gently with a soft cloth.
- Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
- If using a chemically pretreated cloth, please follow the instruction provided on the package.
- Never use strong solvents such as a thinner, alcohol or benzine for cleaning.
- See the supplied Safety Booklet for additional information.

The 32 class has a 31.5 inch viewable image size (measured diagonally).

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**Customer Support**
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Canada
http://www.sony.ca/support

**On-line Registration**
United States
http://productregistration.sony.com
Canada
http://www.SonyStyle.ca/registration

# Introducing Your New BRAVIA®

## Welcome to the World of BRAVIA®

Thank you for choosing this Sony BRAVIA® high-definition television. Use the documentation listed below to get the most out of your TV.

**Safety Booklet**
Contains precautionary measures to keep you and your TV safe. Read this information prior to setting up your TV.

**Operating Instructions**
Provides the most detailed information to operate your TV.

**Quick Setup Guide**
Provides TV setup information with sample connection diagrams.

## Experiencing Stunning HD with Your BRAVIA

The quality of the image you see on your **BRAVIA** TV is only as good as the quality of the signal it receives. To experience the stunning detail of your new **BRAVIA** TV, you need access to HD programming. Your **BRAVIA** TV can receive and display HD programming from:

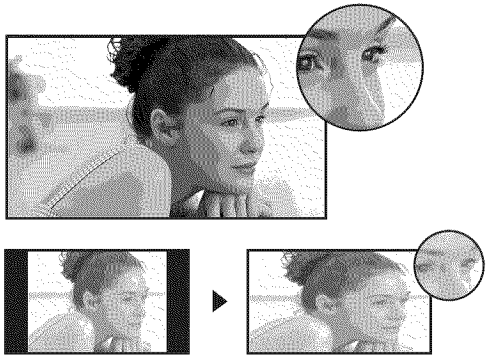
- Over-the-air broadcasting via HD-quality antenna
- HD cable subscription
- HD satellite subscription
- Blu-ray Disc™ player or other HD compatible external equipment

Contact your cable, satellite or HD service provider for information on upgrading to HD programming.

# *The Four Steps to a Stunning HD Experience*

## Set, Source, Sound, and Setup

Along with your **BRAVIA** TV **set**, a complete HD system requires a **source** of HD programming, an HD **sound** system, and a proper connection **setup**. Refer to the Quick Setup Guide, enclosed separately, for connecting optional equipment.



You can enjoy crisp, clear images, smooth movement, and high-impact visuals from 1080 HD signals as shown here.
When you compare a high-definition signal to a standard analog signal, you will notice a big difference in picture quality. If black bars appear as shown here, press **WIDE** on the remote control to fill the screen.

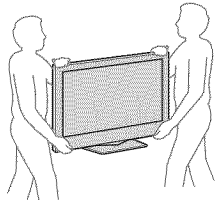
# Getting Started

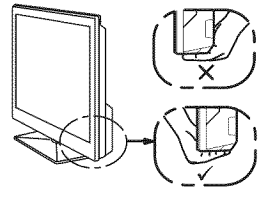
## Setting Up Your TV

Some TV models are packaged with a detached Table-Top Stand so you can mount your TV to a wall right away. If you are not mounting the TV to a wall, you will need to attach the Table-Top Stand. You will need a Phillips screwdriver and the supplied screws to complete the task. Look for the attachment instructions provided with the TV.

Be sure to consider the following while setting up your TV:

- Disconnect all cables when carrying the TV.
- Carry the TV with the adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damage.

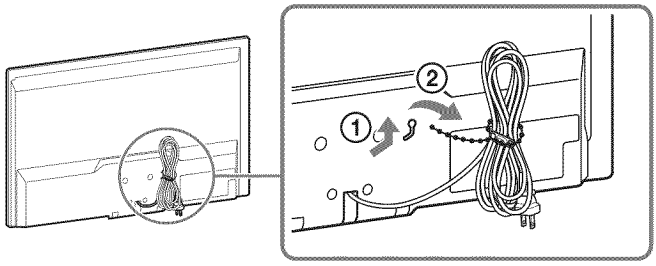




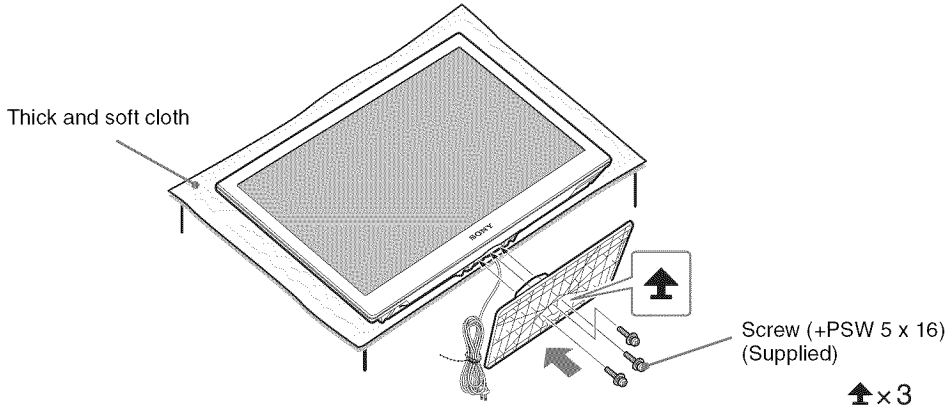
- Ensure your TV has adequate ventilation, see page 15.
- For best picture quality, do not expose the screen to direct illumination or sunlight.
- Avoid installing the TV in a room with reflective wall and floor materials.
- Avoid moving the TV from a cold area to a warm area. Sudden room temperature changes may cause moisture condensation. This may cause the TV to show poor picture and/or poor color. Should this occur, allow moisture to evaporate completely before powering the TV on.

## *Attaching the Table-Top Stand*

**1** Release the AC power cord from the TV.



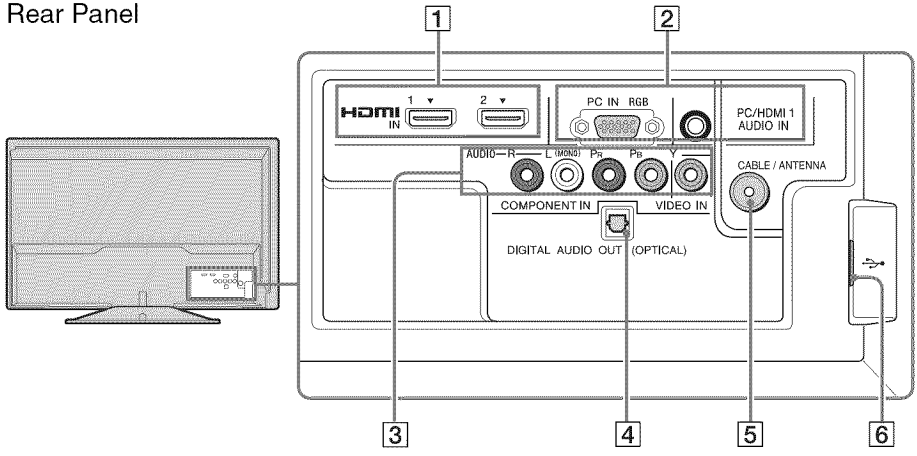

**2** Place the TV with its screen facing up on a level and stable surface covered with a thick and soft cloth. Use the supplied three screws to attach the Table-Top Stand to the TV. Make sure that you carry out this task with at least two or three people (see page 6 for details).




• To detach the Table-Top Stand from the TV, remove the three screws guided by the allow mark on the Table-Top Stand. Do not remove any other screws.
Two of removed screws are needed to install the Wall-Mount Bracket (see page 40 for details).

# *Locating Inputs and Outputs*

Rear Panel




| Item | Description |
|---|---|
| 1 **HDMI IN 1/2** | HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video equipment, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus digital audio. Be sure to use only an HDMI cable that bears the HDMI logo.<br>Use the HDMI IN 1 port when connecting DVI equipment. Use a DVI-to-HDMI cable or adapter (not supplied). Equipment using a DVI connection also requires an additional audio connection using an audio cable connected to PC/HDMI 1 AUDIO IN of PC IN. |
| 2 **PC IN (RGB)** | Connects to a personal computer's video and audio output connector. Can also be connected to other analog RGB equipment. See "PC Input Signal Reference Chart" on page 36 for the signals that can be displayed.<br>For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If an adapter is used, connect the adapter to the computer before connecting the HD15-HD15 cable.<br>You may need to adjust the TV settings or your PC's resolution and timing. See page 13 for information on how to setup your PC to this TV. |
| 3 **VIDEO IN/ COMPONENT IN/R-AUDIO-L (MONO)** | This input port can be used as a composite video input (VIDEO) or as a component video input (COMPONENT). For composite use, connect the yellow jack to Y for video and use audio L (mono) and R for audio signal. For component connection, use Y, $P_B$, $P_R$ for video signals and also connect the audio L (mono) and R for audio signal.<br>This TV can auto detect and switch between the VIDEO and COMPONENT when VIDEO or COMPONENT is connected. |

| Item | | Description |
|---|---|---|
| 4 | **DIGITAL AUDIO OUT (OPTICAL)** | Connects to the optical audio input of digital audio equipment that is PCM/Dolby*1 Digital compatible. |
| 5 | **CABLE/ ANTENNA** | RF input that connects to your Cable or VHF/UHF antenna. |
| 6 | **USB** | Connects to USB equipment to access photo files. |

*1 Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

• An HDMI or Component video (YPBPR) connection is required to view 480i, 480p, 720p, 1080i and 1080p video formats. 1080/24p is available only with HDMI connection.

# *Connecting the TV*

## Cable System or VHF/UHF Antenna System

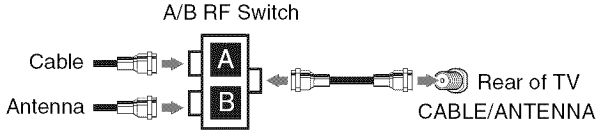
You can enjoy high-definition and standard-definition digital programming (if available in your area) along with standard-definition analog programming.
This TV is capable of receiving unscrambled digital programming for both cable (QAM and 8VSB) and external VHF/UHF antenna (ATSC).

### Cable or VHF/UHF (or VHF only)

• It is strongly recommended that you connect the CABLE/ANTENNA input using a 75-ohm coaxial cable to receive optimum picture quality. A 300-ohm twin lead cable can easily be affected by radio frequency interference, resulting in signal degradation.

## Cable System and VHF/UHF Antenna System

Use an optional A-B RF switch (not supplied) to switch between the cable and over-the-air antenna programming, as indicated below.

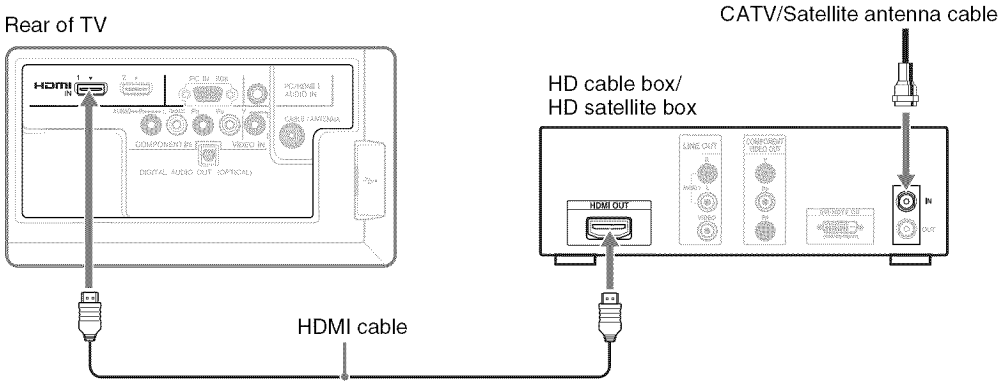


• Be sure to set the **Signal Type** setting to **Cable** or **Antenna** found under the **Channel** settings for your input signal (page 30).

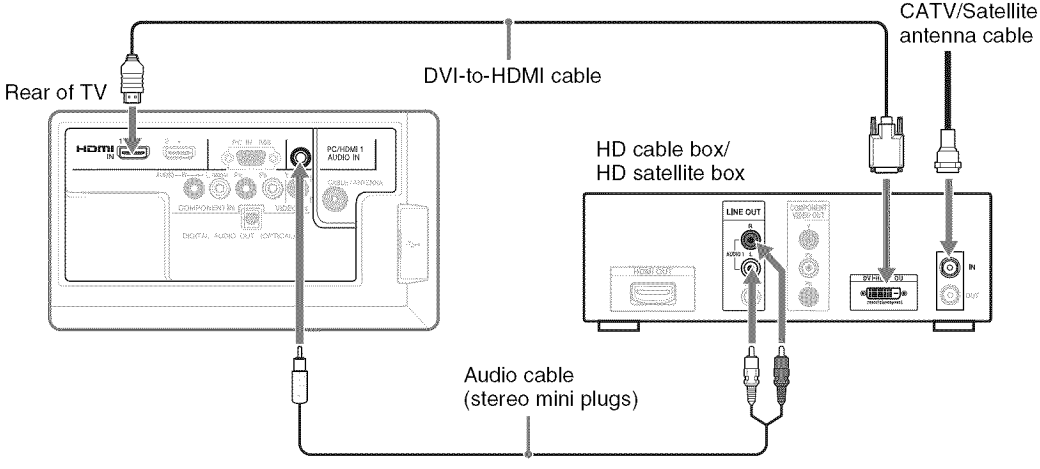
## HD Cable Box/HD Satellite Box

You can enjoy high-definition programming by subscribing to a high-definition cable service or a high-definition satellite service. For the best possible picture, make sure you connect this equipment to your TV via the HDMI or component video (with audio) input located on the back of your TV.

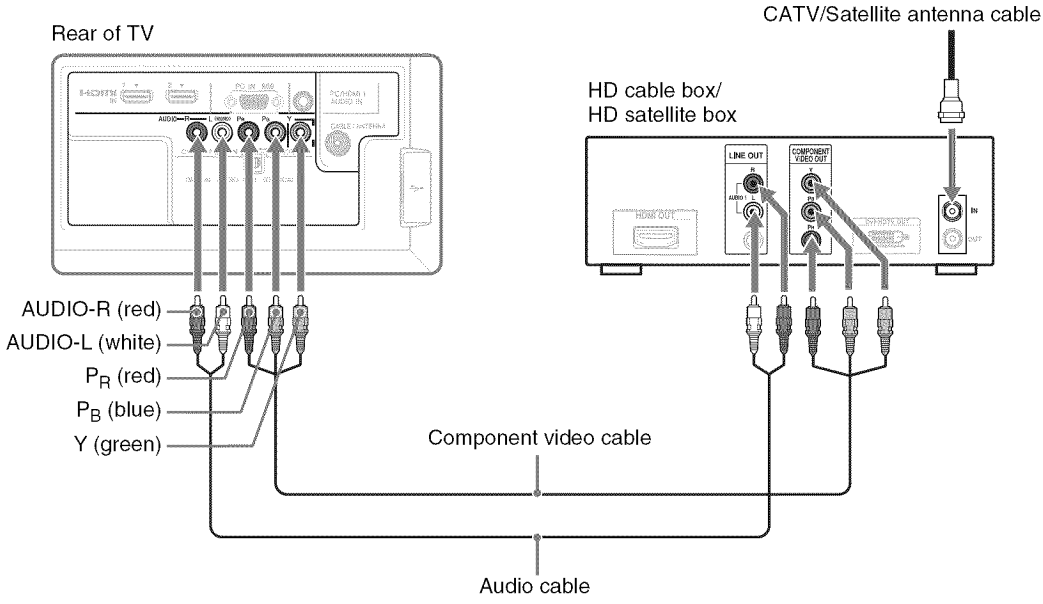
### Shown with HDMI Connection




### Shown with DVI Connection



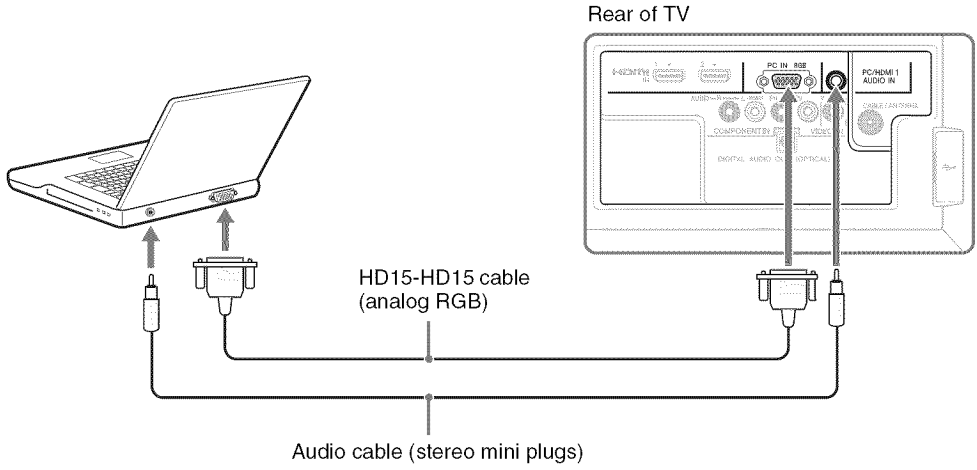
**Shown with Component Connection**




- If your equipment has a DVI output and not an HDMI output, connect the DVI output to the HDMI IN 1 (with DVI-to-HDMI cable or adapter) and connect the audio output to the AUDIO IN of PC IN. For details, see page 8.

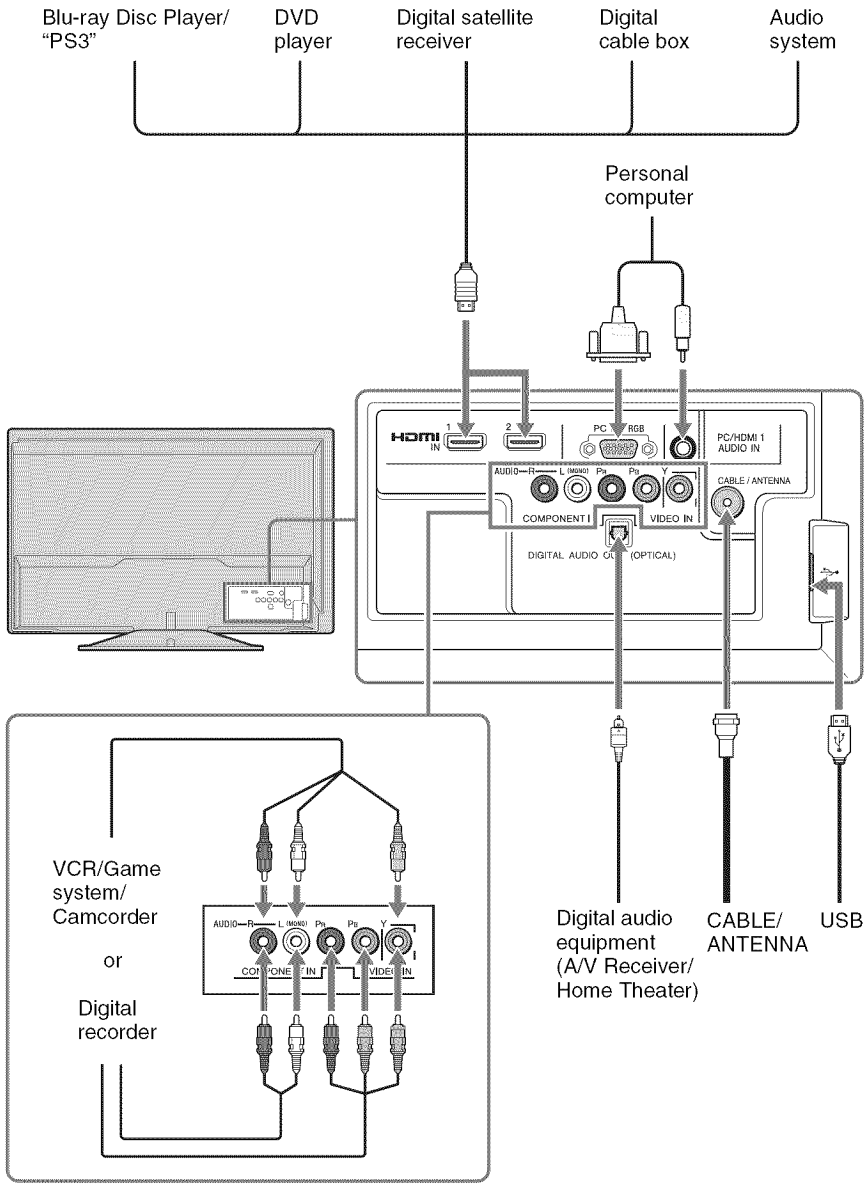
## PC

Use the TV as a monitor for your PC by connecting an HD15-HD15 cable connection as shown below. This TV can also be connected to a PC with a DVI or HDMI output. (Refer to the separate Quick Setup Guide.)




• Connect the PC IN jack to the PC using an HD15-HD15 cable with ferrite core (analog RGB) and audio cable (page 8).

# *Connecting Other Equipment*

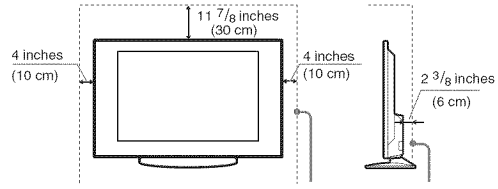



• Refer to the Quick Setup Guide (supplied) when connecting other equipment to your TV.

## *When Installing the TV Against a Wall or Enclosed Area*

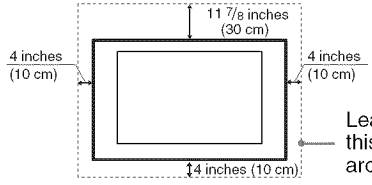
Make sure that your TV has adequate ventilation. Allow enough space around the TV as shown below. Avoid operating the TV at temperatures below 41 °F (5 °C).

**Installed with stand**



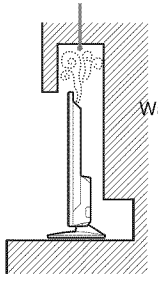

Leave at least this much space around the set.

**Installed on the wall**

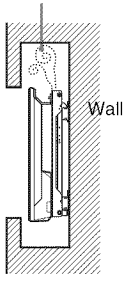



Never install the TV set as follows:

Air circulation is blocked.




Air circulation is blocked.



• Inadequate ventilation can lead to overheating of the TV and may cause TV damage or cause a fire.

# *Securing the TV*

Sony strongly recommends taking measures to prevent the TV from toppling over. Unsecured TVs may topple and result in property damage, serious bodily injury or even death.

## Preventing the TV from Toppling

- ❑ Secure the TV to a wall and/or stand.
- ❑ Do not allow children to play or climb on furniture and TV sets.
- ❑ Avoid placing or hanging items on the TV.
- ❑ Never install the TV on:
  - slippery, unstable and/or uneven surfaces.
  - furniture that can easily be used as steps, such as a chest of drawers.
- ❑ Install the TV where it cannot be pulled, pushed, or knocked over.
- ❑ Route all AC power cords and connecting cables so that they are not accessible to curious children.

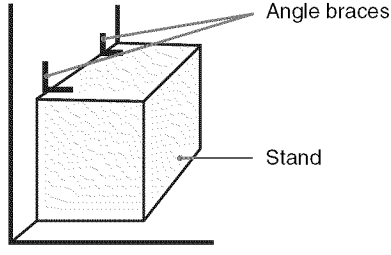
## Recommended Measures to Secure the TV

Consider the following measures when securing your TV to a TV stand (not supplied).

**1** Secure the stand for the TV.

Make sure the TV stand can adequately support the weight of the TV. Use two angle braces (not supplied) to secure the stand.
For each angle brace use the appropriate hardware to:

- attach one side of the angle brace to the wall stud.
- attach the other side to the TV stand.

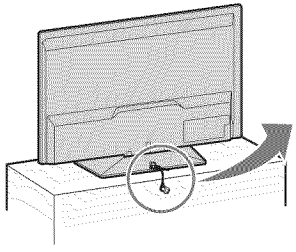


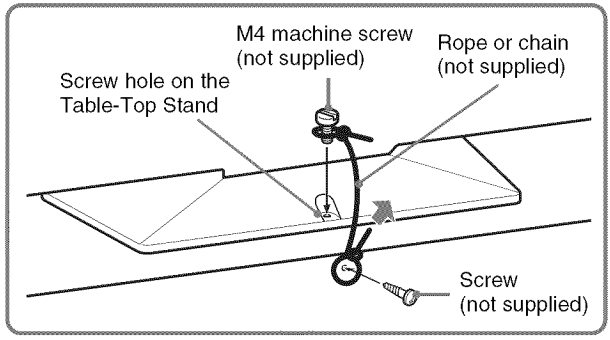
**2** Secure the TV to the stand.

Use the optional hardware listed below (not supplied):

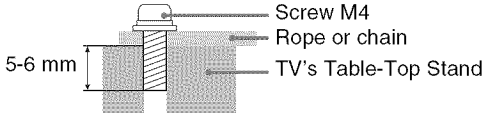
- M4 machine screw (screwed into the TV's Table-Top Stand).
- A screw or similar (attach it to the TV stand).
- Rope or chain (strong enough to support the weight of the TV). Make sure that there is no excess slack in the rope or chain.

An alternative way to secure the TV is with an optional Sony Support Belt Kit.



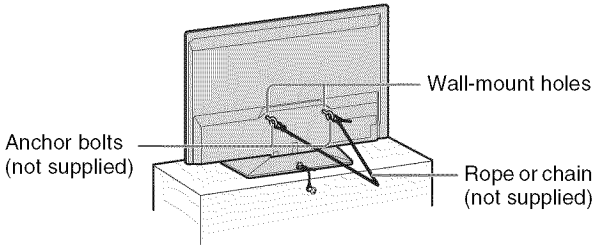


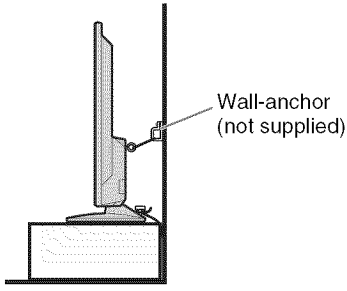

The length of the M4 machine screw differs depending on the rope or chain diameter. Please refer to right illustration.




**3** Anchor the TV to the wall.

Anchor the TV to the wall by using bolts, wall anchor and chain (or rope).




- Contact Sony Customer Support to obtain the optional Support Belt Kit by providing your TV model name.
  For United States call: 1-800-488-7669 or visit: www.sony.com/accessories
  For Canada call: 1-877-899-7669
- Securing the TV to the stand without securing the TV and the stand to the wall provides minimum protection against the TV toppling over. For further protection, be sure to follow the three measures recommended.

## *Running Initial Setup*

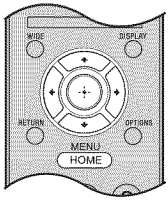
During initial setup, you will perform the following:

- Set the language for the On Screen Display (OSD) text
- Scan for digital and analog channels

Complete your cable connections before beginning the **Initial Setup**. Refer to the Quick Setup Guide (supplied) for sample connection diagrams.

1 Turn on the TV. The **Initial Setup** screen will appear.

2 Use the remote control buttons described below to navigate through the **Initial Setup**.




**↑/↓/←/→ buttons**:
Allow you to navigate and highlight options where applicable.
**⊕ button**:
Allows you to select the highlighted option and advance to the next screen.

3 **Auto Program** will scan for available channels from the signal source directly connected to the TV's CABLE/ANTENNA input. Follow the help text provided on the screen to run the **Auto Program**.

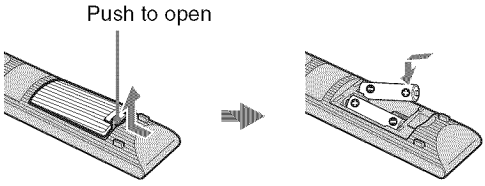
- Select **Cancel** to stop or cancel the **Auto Program**. The **Auto Program** can be done at later time. To run **Auto Program** at a later time, press **HOME** and select **Auto Program** under **Channel** settings.
- Connect either your cable or antenna to the TV (you can connect both using an A-B RF switch (not supplied)); for more details see page 10.

# Operating the TV

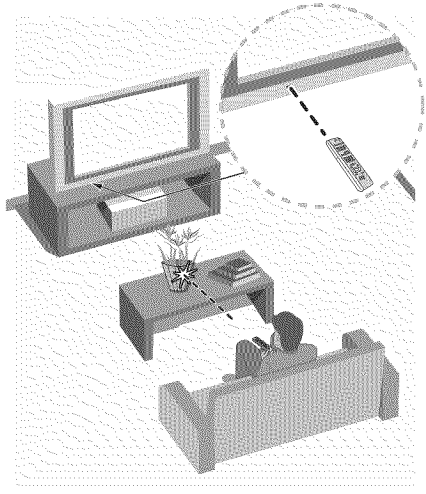
## Using the Remote Control

### To Insert Batteries into the Remote Control

Insert two size AA batteries (supplied) by matching ⊕ and ⊖ on the batteries to the diagram inside the battery compartment of the remote control.

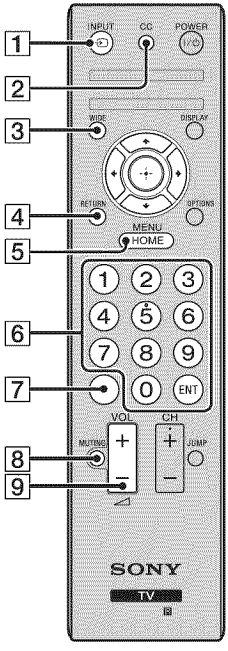



### Guidelines to follow



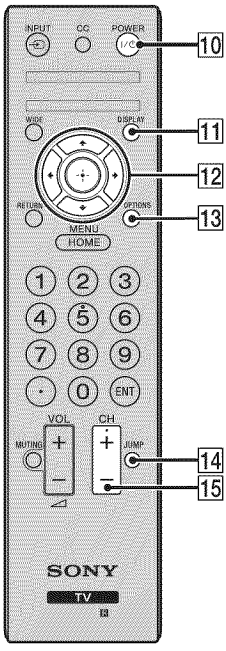
- Point your remote control directly at the IR sensor located on your TV.
- Make sure that no objects are blocking the path between the remote control and the IR sensor on your TV.
- Fluorescent lamps can interfere with your remote control; try turning off the fluorescent lamps.
- If you are having problems with the remote control, reinsert or replace your batteries and make sure that they are correctly inserted.

# Remote Control Button Description



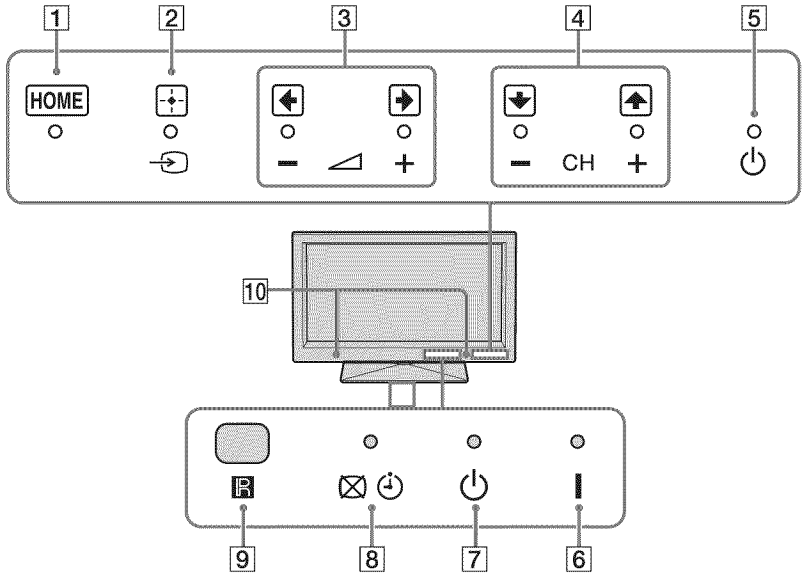

| Button | Description |
|---|---|
| 1 **INPUT** | Press to display the list of External Inputs and TV mode. Press repeatedly to toggle through the inputs. See page 24. |
| 2 **CC** | Press to cycle through the available settings for **Closed Captions (CC)** : **On**, **Off**, and **On when Muting**. |
| 3 **WIDE** | Press repeatedly to cycle through the available **Wide Mode** settings. See page 23. |
| 4 **RETURN** | Press to go back to the previous screen or exit from the screen when displaying menu items and settings. |
| 5 **HOME/ MENU** | Press to display the menu with TV functions and settings. See "Using the Menus" on page 26. |
| 6 **0-9 ENT** | Press **0-9** to select a channel. Press **ENT** to change channels immediately. |
| 7 ⊙ | Use with **0-9** to select digital channels. For example, to enter 2.1, press ②, ⊙, ① and ⊕. |
| 8 **MUTING** | Press to mute the sound. Press again or press **VOL +** to restore the sound. |
| 9 **VOL (◿) +/–** | Press to adjust the volume. |

• The **5** and **CH +** buttons have a tactile dot. Use them as a reference when operating the TV.




| Button | Description |
|---|---|
| 10 **POWER I/⏻** | Press to turn on and off the TV. |
| 11 **DISPLAY** | Press once to display the banner with channel/program information you are watching. The banner will time out in a few seconds or press again to exit. |
| 12 **↑/↓/←/→** ⊕ | Press ↑/↓/←/→ to move focus/highlight. Press ⊕ to select/confirm an item. |
| 13 **OPTIONS** | Press to display a list of convenient functions and menu shortcuts. The **OPTIONS** menu items vary based on current input and content. |
| 14 **JUMP** | Press to jump back and forth between two channels and external inputs. The TV alternates between the current/last channel or external input selected. |
| 15 **CH +/–** | Press to scan through channels. To scan quickly through channels, press and hold down either **CH +/–**. |

# TV Controls and Indicators




| Item | Description |
|---|---|
| 1 **HOME** | Press to display menu with TV functions and settings (see "Using the Menus" on page 26). |
| 2 **(Input)** | Press to display the list of external inputs. Press repeatedly to toggle through the inputs. In the menu screen, this button serves as confirming the selection or setting. |
| 3 – + | Press to adjust the volume. In the menu screen, these buttons serve as left/right buttons. |
| 4 – CH + | Press to scan through channels. To scan quickly through channels, press and hold down either **CH –/+**. In the menu screen, these buttons serve as up/down buttons. |
| 5 **(Power)** | Press to turn on and off the TV. |
| 6 **I (Power) LED** | Lights up in green when the TV is turned on. |
| 7 **(Standby) LED** | Lights up in red when the TV is in standby mode. |
| 8 **(Picture Off)/ (Timer) LED** | Lights up in orange when the sleep timer is set. Lights up in green when the **Power Saving** is set to **Picture Off**. |
| 9 **(IR) Infrared Receiver** | Receives IR signal from the remote control. Do not put anything over the sensor, doing so may affect its function. |
| 10 **Speaker** | Outputs audio signal. |

- For more information about setting up the external inputs labels and the **Skip** feature, see page 35.
- Make sure that the TV is completely switched off before unplugging the power cord.

## Favorites

Your favorite channels and external inputs can be accessed by pressing the **HOME** button once they are added to the list.

1 Press **HOME** and select the **Channel** settings.

2 Select **Favorites**, then press ⊕.

The favorites list appears.

3 Press ↑/↓ to select a channel or input, then press ⊕.

### Adding to Favorites

While tuned to the channel you want to watch or viewing connected equipment, press **HOME** and select **Favorites** in the **Channel** settings to display the list. Highlight **Add to Favorites**, then press ⊕. Your newly added item will be listed at the top of the list. When you continue to add items beyond the 10th item, the item listed at the bottom of the list will be automatically removed from the list.

- Favorite channels and external inputs can also be added using the **OPTIONS** button on the remote control.
- Your **Favorites** list will be cleared each time you run the **Auto Program**.

## Wide Mode

The **Wide Mode** feature allows you to select the screen display of your preference. Based on the original signal source, you may see black bars around the picture or just on the both sides of the screen. Sometimes you will see the picture fill the full screen. This is due to the signals your TV receives.

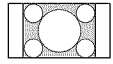
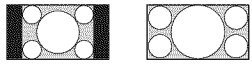
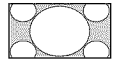
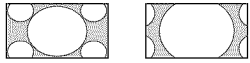
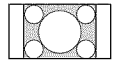
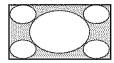
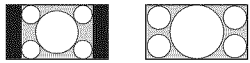
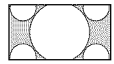
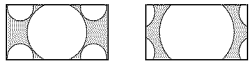
You can manually select available **Wide Mode** settings as you watch your TV by pressing the **WIDE** button on your remote control or you can set your TV to **Auto Wide**.

### To set Auto Wide

Press **HOME** and select the **Screen** settings. Select **Auto Wide** and set to **On**.

### To change the Wide Screen Mode

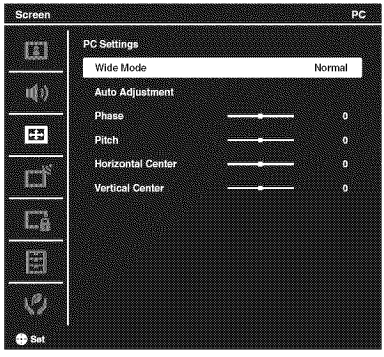
Press **WIDE** repeatedly to cycle through the available modes.

| 4:3 Original source | 16:9 Original source |
|---|---|
| Standard-definition source  | High-definition source  |
| **Wide Zoom**  | **Wide Zoom**  |
| **Normal**  | **Normal** This mode is not available. |
| **Full**  | **Full**  |
| **Zoom**  | **Zoom**  |

**Normal** is available with 480i or 480p sources only.

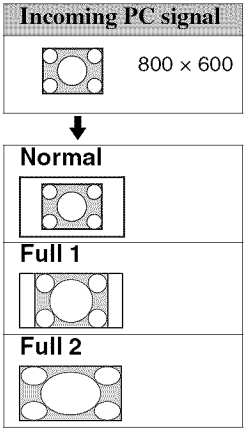
## Wide Mode with PC

**Wide Mode** is also available for the **PC** settings. When a PC is connected to the TV and **PC** input is selected, you can change the PC Screen settings.




### To change the Wide Screen Mode for PC Timing

Press **WIDE** repeatedly to cycle through the available modes while in the PC input mode.




- Use the **Auto Adjustment** to adjust the display position and phase of the picture when the TV receives an input signal from the connected PC.

## Inputs

Press **INPUT** to display the **Input** menu and toggle through the external inputs to select your video signal for viewing including the TV mode. The inputs list consists of TV mode and other equipment connected to the TV.
You can label your external inputs to identify them easily.

### To Label an Input

1. Press **HOME** and select the **Setup** settings. Select the **Label Video Inputs** option. Press ↑/↓ to highlight the video input (**HDMI**, **Video**, **Component**, **PC**) to which you want to assign a label; press ⊕ to select the input of your choice.
2. Press ↑/↓ to highlight one of the displayed labels that corresponds to your connected equipment, then press ⊕.
3. If you have an open input where no equipment is connected, you can label it as **Skip**. When you assign **Skip**, your TV will skip over this input when you press the **INPUT** button. The **Skip** labeled input is grayed out in the input list.

## *Playing back Photo via USB*

You can enjoy photo files stored in a Sony digital still camera or camcorder through a USB cable or USB storage device on your TV.

**1** Connect a supported USB device to the TV.

**2** The file or the folder list automatically appears.
You can show the file or the folder list by selecting **USB** in the **Input** menu if the TV is in the other input after connecting the digital still camera or other device to the USB port.

**3** Press ↑/↓/←/→ to select a file or folder, then press ⊕.
When you select a folder, select a file, then press ⊕.
Playback starts.

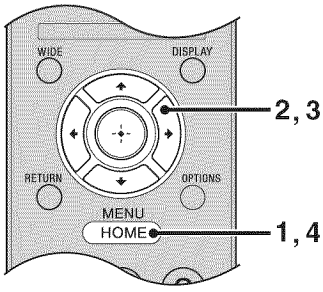
### Notes when playing back files

- While the TV is accessing the data on the USB device, observe the following:
  – Do not turn off the TV or connected USB device.
  – Do not disconnect the USB cable.
  – Do not remove the USB device.
  The data on the USB device may be damaged.
- Sony will not be held liable for any damage to, or loss of, data on the recording media due to a malfunction of any connected devices or the TV.
- USB playback is supported for the following photo file formats:
  – JPEG (JPEG format files with the extension ".jpg" and conforming to DCF 2.0 or Exif 2.21)
- Playback may not start automatically when some digital still cameras (such as cameras with internal memory) are connected.
- The file name and folder name support only English.
- When you connect a Sony digital still camera, set the camera's USB connection mode to "Auto" or "Mass Storage." For more information about USB connection mode, refer to the instructions supplied with your digital camera.
- Use a USB storage device that is compliant with USB Mass Storage Class standards.

# Using the Menus

The **HOME** button allows you to access a variety of TV settings.

## Navigating through TV Menus




1. Press MENU/HOME on the remote control to display the menu options.
2. Press ↑/↓/←/→ to navigate on the menu or adjust the settings.
3. Press ⊕ to select or confirm.
4. Press MENU/HOME to exit.

The following icons contain all of the necessary configurations to customize your TV settings. The options you can select may vary. Unavailable options are grayed out or not displayed.

- **Picture:** adjust the picture on your TV to fit your viewing preference.
- **Sound:** customize your sound settings to suit your audio preference. You can also change the settings to output the sound to your connected audio equipment.
- **Screen:** adjust the size and shape of the images you see on the screen.
- **Channel:** navigate your favorite channels and inputs and select the signal type, as well as autoprogram channels. You can also customize the channels you see and the labels assigned to them.
- **Parental Lock:** set the password and limit access to programming based on rating levels. You can also block channels and inputs.
- **Setup:** modify and customize a variety of general setting options.

# Using the Picture Settings

| Option | Description | |
|---|---|---|
| **Picture Mode**<br>*Customized picture viewing* | **Vivid** | Select for enhanced picture contrast and sharpness. |
| | **Standard** | Select for standard picture settings. Recommended for home entertainment. |
| | **Custom** | Select to store your preferred settings. |
| | **Video** | This option is available for PC timing (HDMI or PC input) signal to enhance the video shown on the screen. |
| | **Text** | This option is available for PC timing (HDMI or PC input) signal to enhance the text shown on the screen. |
| **Reset** | Resets the current **Picture** settings to their defaults, except **Picture Mode**. | |
| **Picture** | Adjust to increase or decrease picture contrast. | |
| **Brightness** | Adjust to brighten or darken the picture. | |
| **Color** | Adjust to increase or decrease color intensity. | |
| **Hue** | Adjust to increase or decrease the green tones. | |
| **Color Temperature**<br>*White adjustment* | **Cool** | Select to give the white colors a bluish tint. |
| | **Neutral** | Select to give the white colors a neutral tint. |
| | **Warm 1/Warm 2** | Select to give the white colors a reddish tint. **Warm 2** gives a redder tint than **Warm 1**. |
| **Sharpness** | Adjust to sharpen or soften the picture. | |
| **Noise Reduction** | Select to reduce the picture noise level. Select from **High**, **Medium**, **Low** and **Off**. | |
| **Live Color** | Makes colors more vivid. Select from **High**, **Medium**, **Low** and **Off**. | |
| **Adv. Contrast Enhancer** | Automatically adjusts contrast to the most suitable settings judging from the brightness of the screen. This setting is especially effective for dark scenes, and will increase the contrast distinction of the darker picture scenes. Select from **High**, **Medium**, **Low** and **Off**. | |

# Using the Sound Settings

| Option | Description | |
|---|---|---|
| **Sound Mode**<br>*Customized sound listening* | **Dynamic** | Enhances treble and bass. |
| | **Standard** | Standard sound optimized for home use. |
| | **Custom** | Select to store your preferred settings. |
| **Reset** | Resets the current **Sound** settings to their defaults, except **MTS Audio** and **Alternate Audio**. | |
| **Equalizer** | **Adjust** allows you to select your frequency response curve. Select **Reset** to reset the **Equalizer** settings to the default values. (Available when **Sound Mode** is set to **Custom**.) | |
| **Balance** | Adjust to emphasize left or right speaker balance. | |
| **Steady Sound** | Select **On** to stabilize the volume across all programs and commercials.<br>Select **Off** to disable this function. | |
| **MTS Audio**<br>*Enjoy stereo, bilingual and mono programs* | **Stereo** | Select for stereo reception when viewing a program broadcast in stereo. |
| | **Auto SAP** | Select to automatically switch the TV to second audio programs when a signal is received. If no **SAP** signal is present, the TV remains in **Stereo** mode. |
| | **Mono** | Select for mono reception. Use to reduce noise during weak stereo broadcasts. |
| **Alternate Audio**<br>*Digital channels only* | Select among the available options to switch among the alternate audio streams. The program you are tuned to may be broadcasted in a different language in the alternate audio streams. | |

- **MTS Audio** is only available for analog programs.
- **Alternate Audio** is only available if the program is broadcast with alternate audio streams.
- You can also access **Sound Mode**, **MTS Audio** and **Alternate Audio** by using the **OPTIONS** button on the remote control.

# Using the Screen Settings

| Option | Description | | |
|---|---|---|---|
| **Wide Mode** | **Wide Zoom** | Fills the screen with minimum distortion. | |
| | **Normal** | Select to display 4:3 picture in original size when the original source is 4:3. | |
| | **Full** | Select to enlarge the picture horizontally to fill the screen when the original source is 4:3 (Standard definition source). When the original source is 16:9 (High-definition source), select this mode to display the 16:9 picture in its original size. | |
| | **Zoom** | Select to enlarge the original picture without distorting the aspect ratio. | |
| **Auto Wide** | **On** | Select **On** to automatically change **Wide Mode** setting based on the content. | |
| | **Off** | If frequent screen changes are disturbing to you, select **Off**. Choose one of the **Wide Mode** options when this function is set to **Off**. | |
| **PC Settings** | When a PC is connected to the TV and the PC input is selected, the **PC** settings screen appears instead of the **Screen** settings. | | |
| | **Wide Mode** | **Normal** | Select to display in the original image size. |
| | | **Full 1** | Select to enlarge the picture to fill the display area, keeping its original aspect ratio. |
| | | **Full 2** | Select to enlarge the picture to fill the display area. |
| | **Auto Adjustment** | Select to automatically adjust the display position and phase of the picture when the TV receives an input signal from the connected PC. Note that **Auto Adjustment** may not work well with certain input signals. In such cases, manually adjust the options below. | |
| | **Phase** | Adjust after **Pitch** to fine tune overall sharpness. | |
| | **Pitch** | Adjust uneven sharpness on screen. | |
| | **Horizontal Center** | Allows you to move the position of the picture left and right. | |
| | **Vertical Center** | Allows you to move the position of the picture up and down. | |



- **Normal** is not available when you are watching a 720p, 1080i or 1080p source.
- For the PC Input Signal Reference Chart, see page 36.
- **Auto Adjustment**, **Phase** and **Pitch** are not available with PC signal connected to HDMI input.

# Using the Channel Settings

| Option | Description | |
|---|---|---|
| **Favorites** | Select favorite channels and external inputs (page 23). | |
| **Signal Type** | **Cable** | Select if you are receiving cable channels via Cable TV provider. |
| | **Antenna** | Select if you are using an antenna. |
| **Auto Program** | Automatically sets up the channel list on the TV for all receivable channels.<br>**1** Select **Auto Program**.<br>**2** Select **OK** to start **Auto Program**. | |
| **Show/Hide Channels** | Allows you to show or hide channels that appear when you use the **CH +/–** buttons.<br>**1** Press ↑/↓ to scroll through the channels until you find the channel you want to show or hide. Then press ⊕ to select it.<br>**2** Press ↑/↓ to determine if the channel will be shown or hidden. Then press ⊕ to select it. | |

- You should run **Auto Program** after changing the **Signal Type** setting.
- Running **Auto Program** will clear the **Favorites** list.
- Channels that you set to be hidden can be accessed by the **0-9** and · buttons.
- You can set channels to be hidden that are automatically set in **Auto Program**.

# Using the Parental Lock Settings

| Option | | Description |
|---|---|---|
| **Enter password** | The **Parental Lock** settings allow you to set up the TV to block programs according to their content and rating levels. Use **0-9** on the remote control to enter a four-digit password. The first time you create a password, confirm the password by entering it again. | |
| **Change Password** | Select to change your password. | |
| **Country** | **U.S.A.** | Select to use U.S.A. ratings (page 32). |
| | **Canada** | Select to use Canadian ratings (page 33). |
| **Rating** | **Off** | Turn **Parental Lock** off. No programs are blocked from viewing. |
| | **Child** | Maximum ratings permitted are:<br>U.S.: TV-Y, TV-G, G<br>Canada: C, G, TV-Y |
| | **Youth** | Maximum ratings permitted are:<br>U.S.: TV-PG, PG<br>Canada: C8+, PG, 8 ans+, TV-PG |
| | **Young Adult** | Maximum ratings permitted are:<br>U.S.: TV-14, PG-13<br>Canada: 14+, 13 ans+, TV-14 |
| | **Custom** | Select to set ratings manually.<br>U.S.: See page 32 for details.<br>Canada: See page 33 for details. |
| **Downloadable U.S. Rating** *(Available only in U.S.A. where advanced ratings exist)* | **Off** | Turn **Downloadable U.S. Rating** off. No programs that contain downloadable ratings are blocked from viewing. |
| | **Custom** | Select to block programs based on downloadable ratings. |
| | **Clear All** | Select to clear the entire downloadable rating system. |
| **Unrated** *(Available only when Country is set to U.S.A.)* | **Allow** | Allows programs and movies that are broadcasted without a rating. |
| | **Block** | Blocks all programs and movies that are broadcasted without a rating. |
| **Channel Block** | Allows you to block channels regardless of program ratings. | |
| | **To View a Blocked Channel**<br>Press ⊕ when tuned to the blocked channel then enter the password. | |



- You need your password for any future access into the **Parental Lock** settings. If you lose your password, see "Lost password" on page 46.
- Selecting **Clear All** will delete the current **Downloadable U.S. Rating** menu and the menu will no longer be available until the TV is tuned to a channel that contains downloadable ratings.
- If you block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcasted from another country, emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.

*(Continued)*

### *US Models: Selecting Custom Parental Lock Rating Options*

To select custom rating options for the U.S., select **U.S.A.** in the **Country** setting (page 31).

| Option | Description | |
|---|---|---|
| **Movie Rating** | **G** | All children and general audience. |
| | **PG** | Parental guidance suggested. |
| | **PG-13** | Parental guidance for children under 13. |
| | **R** | Restricted viewing, parental guidance is suggested for children under 17. |
| | **NC-17** and **X** | No one 17 or under allowed. |
| **TV Rating** | Age-Based Ratings | |
| *Block programs by their rating, content or both* | **TV-Y** | All children. |
| | **TV-Y7** | Directed to children age 7 and older. |
| | **TV-G** | General audience. |
| | **TV-PG** | Parental guidance suggested. |
| | **TV-14** | Parents strongly cautioned. |
| | **TV-MA** | Mature audience only. |
| | Content-Based Ratings | |
| | **FV** | Fantasy violence. |
| | **D** | Suggestive dialogue. |
| | **L** | Strong language. |
| | **S** | Sexual situations. |
| | **V** | Violence. |

• To ensure maximum blocking capability, set the Age-Based Ratings.

### *Canadian Models: Selecting Custom Parental Lock Rating Options*

To select custom rating options for Canada, select **Canada** in the **Country** setting (page 31).

| Option | Description | |
|---|---|---|
| **English Rating** | **C** | All children. |
| | **C8+** | Children 8 years and older. |
| | **G** | General programming. |
| | **PG** | Parental guidance. |
| | **14+** | Viewers 14 and older. |
| | **18+** | Adult programming. |
| **French Rating** | **G** | General programming. |
| | **8 ans+** | Not recommended for young children. |
| | **13 ans+** | Not recommended for ages under 13. |
| | **16 ans+** | Not recommended for ages under 16. |
| | **18 ans+** | Programming restricted to adults. |
| **U.S.A. Rating** | See "US Models" on page 32 for details. | |

### *Viewing Blocked Programs*

You can view blocked programs by entering your password. Press ⊕ when tuned to a blocked program, then enter the password. This temporarily deactivates the parental control feature. To reactivate the **Parental Lock** settings, turn off the TV. When the TV is turned on again, your **Parental Lock** settings are reactivated.

| Option | | | Description |
|---|---|---|---|
| **Closed Captions (CC)** | Allows you to select from several closed caption modes (for programs that are broadcast with closed captioning). | | |
| | **CC Display** | **On** | **Closed Captions (CC)** is turned on. |
| | | **Off** | **Closed Captions (CC)** is turned off. |
| | | **On when Muting** | **Closed Captions (CC)** is turned on when the TV is muted. |
| | **Analog CC** | Allows you to select basic analog (EIA-608) closed caption options. | |
| | | **CC1, CC2, CC3, CC4** | Displays a printed version of the dialogue or sound effects of a program. (Should be set to **CC1** for most programs.) |
| | | **Text1, Text2, Text3, Text4** | Displays network/station information presented using either half or the whole screen (if available). |
| | **Digital CC** | When the digital closed caption service is available, select from the **Service 1-6** or **CC1-4**. | |
| | **Digital CC Options** | Allows you to make additional settings for digital closed caption options. Select **As Broadcast** or **Custom**. The **Custom** option is available on the **Digital CC** setting. | |
| | | **Custom** | Allows you to customize the following settings: |
| | | | **Character Size** — Small, Standard, Large |
| | | | **Character Style** — Style 1-7 |
| | | | **Character Color** — Color 1-8 |
| | | | **Character Opacity** — Solid, Translucent |
| | | | **Edge Type** — None, Raised, Depressed, Outline, Left Shadow, Right Shadow |
| | | | **Edge Color** — Color 1-8 |
| | | | **Background Color** — Color 1-8 |
| | | | **Background Opacity** — Solid, Translucent |

- You can turn on **Closed Captions (CC)** options (**On**, **Off** or **On when Muting**) by pressing the **CC** button on the remote control.

| Option | Description | |
|---|---|---|
| **Sleep Timer** | Set the time in minutes (**Off**, **15**, **30**, **45**, **60**, **90**, or **120**) that you would like the TV to remain on before shutting off automatically. | |
| **Language** | Select to display all on-screen settings in your language of choice: **English**, **Español**, **Français**. | |
| **Label Video Inputs** | Allows you to identify A/V equipment you connected to the TV, such as a VCR, DVD, etc. For example, if you have a DVD player connected to the COMPONENT IN jack, you can select the label DVD for the Component input. Then when you press **INPUT** to change inputs, the video label you assigned to that input appears on screen.<br>**1** Press ↑/↓ to highlight the video input (**HDMI**, **Video**, **Component**, **PC**) to which you want to assign a label. Then press ⊕ to select the input.<br>**2** Press ↑/↓ to highlight one of the displayed labels. Then press ⊕ to select the label. | |
| **Power Saving** | Select from **Off**, **Low**, **High**, **Picture Off** to adjust your TV's power consumption. By selecting the **High** option, you will reduce the power consumption more than the other available settings.<br>While **Picture Off** is set, pressing **VOL +/–** or **MUTING** buttons will not disable this function. Press other buttons to disable it. | |
| **Auto Shut Off** | Select **On** to automatically power off the TV when no input signal is detected for a certain period of time. Select **Off** to disable this function. | |
| **Product Support** | **Contact Sony** | Sony contact information is available on this screen for your convenience. TV specific information such as Model Name, Serial Number, Software Version and downloadable ratings (if available from the TV) are displayed here. |
| | **Signal Diagnostics** | Press to display the diagnostics information for the current signal. |
| **Initial Setup** | If you missed the **Initial Setup** when you first connected the TV or if you want to scan all receivable channels, select **Initial Setup**. Follow the instructions on the screen. Some settings such as **Picture**, **Sound**, and **Parental Lock** will not be affected by this **Initial Setup**. If you wish to return your TV to factory settings, please see the Troubleshooting section on page 46. | |

- You can assign following labels for each input:
  –, **Cable**, **Receiver**, **Satellite**, **VCR**, **DVD/BD**, **DVR**, **Audio System**, **Home Theater**, **Game**, **Camcorder**, **Digital Camera**, **PC**, **Skip** (except PC IN)
  –, **Skip** (for PC IN)
- "–" indicates that no labels are assigned.
- If you select **Skip**, your TV skips this input when you press the **INPUT** button.
- The Skip label is useful for inputs to which no equipment is connected.
- Favorite channel list will be cleared each time you run the **Initial Setup**.

## PC Input Signal Reference Chart for PC and HDMI IN

After connecting the PC to the TV, set the output signal from the PC according to the chart below.

| Resolution | | | | Horizontal frequency (kHz) | Vertical frequency (Hz) | Standard |
|---|---|---|---|---|---|---|
| Signals | Horizontal (Pixel) | × | Vertical (Line) | | | |
| VGA | 640 | × | 480 | 31.5 | 60 | VGA |
| SVGA | 800 | × | 600 | 37.9 | 60 | VESA Guidelines |
| XGA | 1,024 | × | 768 | 48.4 | 60 | VESA Guidelines |
| WXGA | 1,280 | × | 768 | 47.4 | 60 | VESA |
| | 1,280 | × | 768 | 47.8 | 60 | VESA |
| | 1,360 | × | 768 | 47.7 | 60 | VESA |

* The 1080p timing when applied to the HDMI input will be treated as a video timing and not PC timing. This affects **Picture** settings and **Wide Mode** settings.

- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC VGA input does not support interlaced signals.
- Your PC must support one of the above PC input signals to display on the television.
- In plug and play, signals with a 60 Hz vertical frequency will be detected automatically. (PC reboot may be necessary.)

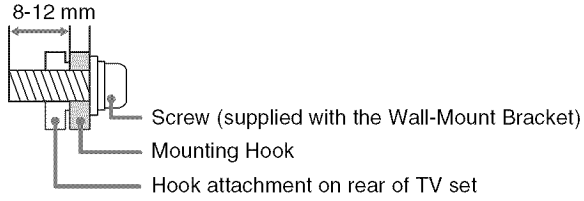
## *Using a Wall-Mount Bracket*

Your TV can be mounted on a wall using a Wall-Mount Bracket (not supplied) out of the box as packaged. Some larger size TV may require removing the Table-Top Stand; refer to the instructions provided with the TV.

Prepare the TV for the Wall-Mount Bracket before making cable connections.

**For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket designed for your TV and the installation should be performed by a Sony dealer or licensed contractor.**

- Follow the instruction guide provided with the Wall-Mount Bracket for your model. Sufficient expertise is required in installing this TV, especially to determine the strength of the wall for withstanding the TV's weight.
- Be sure to use the screws supplied with the Wall-Mount Bracket when attaching the mounting hooks to the TV set.
  The supplied screws are designed as indicated by illustration when measured from the attaching surface of the mounting hook.
  The diameter and length of the screws differ depending on the Wall-mount bracket model. Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.




- Be sure to store the unused screws and Table-Top Stand in a safe place until you are ready to attach the Table-Top Stand. Keep the screws away from small children.



• Read the supplied Safety Booklet for additional safety information.

# *Installing the Wall-Mount Bracket*

### To Customers

Your TV can be wall-mounted using SU-WL500 Wall-Mount Bracket (sold separately).

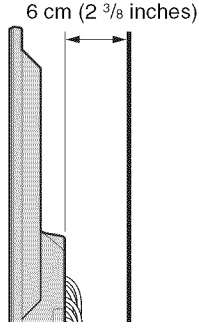
Please provide this installation information as well as the instruction supplied with SU-WL500 Wall-Mount Bracket to your installer.

### To Sony Dealers and Licensed Contractors

To avoid injury and property damage, read these instructions carefully. Periodic inspection and maintenance is highly recommended to ensure that TV is securely mounted.

### Note when installing

When using the SU-WL500 Wall-Mount Bracket, the space between the wall and the TV will be 6 cm (2 3/8 inches). Use this space to route cables to the TV.



**For SU-WL500**

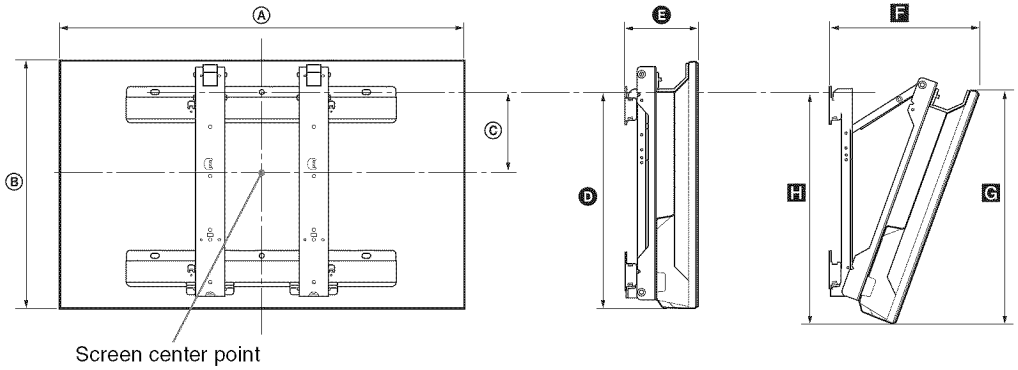
## Step 1: Checking the parts required for the installation

Open the Wall-Mount Bracket package and check the contents for all required parts along with the Instructions.

## Step 2: Deciding on the installation location

Decide where you want to install your TV. Refer to the TV installation dimensions table.
**Refer to the Instructions for SU-WL500.**

### Dimension Table




| Unit: mm (inches) | TV Dimensions | | Screen center dimensions | Length for each mounting angle | | | | | Weight | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Angle (0°) | | Angle (20°) | | | | |
| TV Model | Ⓐ | Ⓑ | Ⓒ | Ⓓ | Ⓔ | Ⓕ | Ⓖ | Ⓗ | TV | ×4 |
| KDL-32BX310 | 772 (30 1/2) | 484 (19 1/8) | 166 (6 5/8) | 419 (16 1/2) | 142 (5 5/8) | 287 (11 3/8) | 457 (18) | 453 (17 7/8) | 6.1 kg (13.5 lb.) | 24.4 kg (53.8 lb.) |

Figures in the above table may differ slightly depending on the installation.

**CAUTION**

The wall that the TV will be installed on should be capable of supporting a weight of at least four times that of the TV. Refer to your TV's operating instructions for its weight.

## Step 3: Installing the Base Bracket on the wall

**Refer to the Instructions for SU-WL500.**

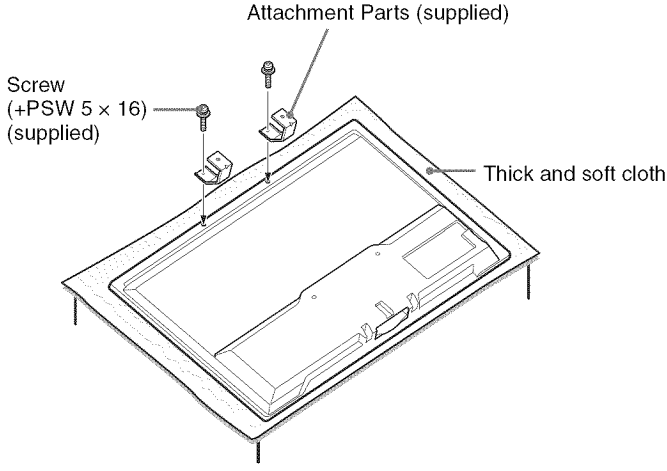
### Step 4: Preparing the TV for wall mount installation

Follow the steps below to prepare for installing the TV.

**1** Secure the Mounting Hook to the rear of the TV.

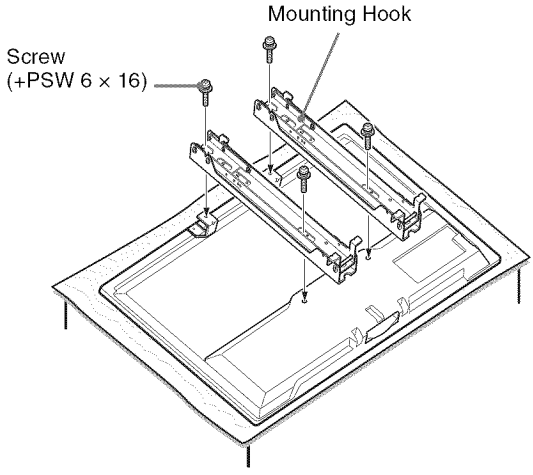
Determine the screw locations and secure the Mounting Hooks to the rear of the TV. Refer to the "Screw and Hook Locations Diagram/Table" (see page 42).

❶ Secure the Attachment Parts to the rear of the TV using the two screws. Screws (+PSW 5 × 16) are common for attaching the Table-Top Stand.




• When installing the TV on the wall, one screw will be remained.
Be sure to store it in safe place, keeping it away from children.

❷ Secure the Mounting Hooks to the rear of the TV using the four screws supplied with the Wall-Mount Bracket.



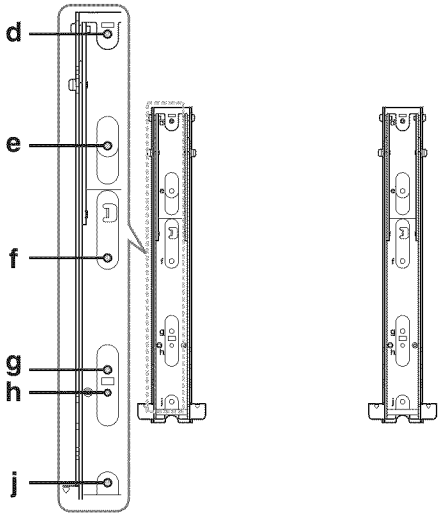

❸ Be sure to tighten the screws with equal torque strength.

### Screw and Hook Locations Diagram/Table

| TV Model | Screw location | Hook location |
|---|---|---|
| KDL-32BX310 | d, g | c |

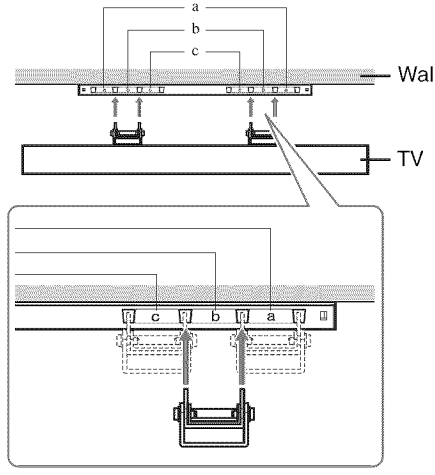
**Screw location**

When installing the Mounting Hooks on the TV.




**Hook location**

When installing the TV onto Base Bracket.




**2** Adjust the angle of the Mounting Hook.

**Refer to the Instructions for SU-WL500.**

## Step 5: Installing the TV on the wall

**Refer to the Instructions for SU-WL500.**

- When you put the TV back on the Table-Top Stand, reverse the above steps.
- When moving the TV, do not squeeze the bottom of the front panel too tight.
- Remove the screws or install the Mounting Hook on a stable and level surface.

# Troubleshooting

Many of the poor pictures and poor sound conditions are related to improper connection of the cables; refer to the Quick Setup Guide provided for connections.

If you have questions, service needs, or require technical assistance related to the use of your Sony TV even after you read this operating instructions manual, contact the following:

**For US Support:**

http://www.sony.com/tvsupport or call 1-800-222-SONY (7669)

**For Canadian Support:**

http://www.sony.ca/support or call 1-877-899-SONY (7669)

## Things to consider

- Check the input selection by pressing the **INPUT** button. You may be watching the wrong input.
- If you cannot hear sound from the TV, you may have accidentally pressed the **MUTING** button on your remote control; press the **MUTING** button again or press **VOL +** to deactivate muting.
- If the remote control is not functioning properly, the batteries may be installed incorrectly or may be low or an object or light may be interfering with the remote control.
- To reset the TV to factory default settings:
  1. Turn on the TV.
  2. Press and hold down the ↑ button on the remote, press the ⏻ button on the TV set. (The TV will turn itself off, then back on again.)
  3. Release the ↑ button when the TV is turn on.

IMPORTANT: The factory reset will clear all of your customized settings including the **Parental Lock** setting.

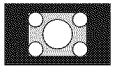
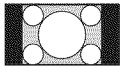
When the Password is lost or cannot remember, enter the master password: 4357. This password clears your previous password and allows you to enter a new password.

| Condition | Explanation/Solution |
|---|---|
| **No picture** | |
| No picture | • Check the **Power Saving** settings (see page 35). |
| Cannot receive any channels | • Make sure the power cord is connected securely.<br>• Turn on the power of the TV.<br>• Check cable/antenna connections.<br>• Make sure the **Signal Type** setting is correct for your TV signal source. |
| TV is locked to one channel | • Perform **Auto Program** to add receivable channels that are not present in the TV's memory (see pages 18 and 30). |
| Cannot receive or select channels | • Perform **Auto Program** to add receivable channels that are not present in the TV's memory (see pages 18 and 30).<br>• To receive or select cable channels, make sure that **Signal Type** in the **Channel** settings is set to **Cable** (see page 30). To receive or select UHF channels over an antenna, make sure **Signal Type** is set to **Antenna**. |
| The TV turns off automatically | • Check if **Sleep Timer** is activated (see page 35).<br>• Check the **Auto Shut Off** settings (see page 35). |
| No picture from some video sources | • Check the connection between the optional video equipment and the TV.<br>• Press **INPUT** on the remote control (see page 24). |



(Continued)

| Condition | Explanation/Solution |
|---|---|
| **Poor picture** | |
| Picture quality not as good as viewed at the store | • Picture quality depends on the signal content. See Quick Setup Guide (supplied) to display the best possible picture for that signal. |
| Broadcast HD formats have poor quality | • Content and signal quality are controls by the signal provider. Many HD channels and content are actually upscaled versions of standard-definition broadcasts. The picture is affected by the quality of the signal received, which varies between channel and program. |
| Double images or ghosts | • Check cable/antenna connections.<br>• Check the antenna location and direction. |
| Only snow and noise appear on the screen | • Check if the antenna is broken or bent.<br>• Check if the antenna has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside.) |
| Dotted lines or stripes | • Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers.<br>• If using 300 ohm twin lead, move the excess lead away from the TV or try using 75-ohm coaxial cable instead. |
| No color / Dark picture / Color is not correct / The picture is too bright | • Adjust the **Picture Mode** options in the **Picture** settings (see page 27).<br>• If you set the **Power Saving** mode to **Low** or **High**, it will enhance the black level. |
| Noisy picture | • Make sure that the antenna is connected using a 75-ohm coaxial cable (not supplied).<br>• Keep the antenna cable away from other connecting cords.<br>• To avoid TV interference, make sure to use an undamaged antenna cable. |
| Blurry picture / Poor color | • Transporting the TV from a cold to a warm location or a sudden change in room temperature may cause moisture condensation, resulting in a blurry picture or poor color. Turn off your TV and wait a few hours before powering on again. |
| **No sound / Noisy sound** | |
| No sound but good picture | • Check the volume control.<br>• Press **MUTING** or **VOL +** so that "Muting" disappears from the screen (see page 20).<br>• When using HDMI input with Super Audio CD or DVD-Audio, DIGITAL AUDIO OUT (OPTICAL) may not provide an audio signal.<br>• When tuned to a digital channel with **Alternate Audio**, the broadcaster may not be broadcasting your preferred **Alternate Audio** language. Press **OPTIONS**, highlight and select **Alternate Audio**, and change the **Alternate Audio** language (see page 28). |
| Audio noise | • Make sure that the antenna is connected using a 75-ohm coaxial cable (not supplied).<br>• Keep the antenna cable away from other connecting cords.<br>• To avoid TV interference, make sure to use an undamaged antenna cable. |

| Condition | Explanation/Solution |
|---|---|
| **PC Input** | |
| No picture / No signal | • Confirm the PC is correctly connected to the TV with either the PC IN (with an HD15 cable) or with the HDMI IN.<br>• Ensure the output signal from the PC is one of the formats listed on page 36.<br>• Turn the PC off. Confirm the PC connection and restart the PC. Plug-and-play will auto-detect the TV and correctly set up PC timing.<br>• Verify the PC is not in standby or hibernation mode. |
| Poor Picture | • Adjust the resolution (see page 36).<br>• Adjust **Pitch** and **Phase**. |
| **General** | |
| TV screen/the rear of the TV feels warm | • Due to the thin profile of this television, the heat generated by the LCD panel backlight and supporting electronics will be more noticeable. This is normal operation and not a cause for concern. |
| **Wide Mode** changes automatically | • Check the **Auto Wide** option in the **Screen** settings (see page 29). |
| Suddenly the picture gets smaller  | • The picture gets smaller during the commercials due to the method in which the provider broadcasts their content. When HD content channels switch to SD content (commercials), the picture may be small with a black border.<br>• **Auto Wide** will not expand the picture during these content changes since the content information is regulated by the channel signal provider. You can manually change the **Wide Mode** if you prefer (see page 23). This setting will remain in effect until you change the channel or input or manually change the **Wide Mode** again. |
| "Black box" on screen | • You have selected a text option and no text is available (see page 34). To turn off this feature, set the **CC Display** option to **Off**. If you were trying to select closed captioning, select **CC1** instead of **Text1-4**. |
| Black bands appear at the edges of the screen  | • Some wide screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD/Blu-ray (or contact your program provider).<br>• Programs in 4:3 aspect ratio will have bands on left and right sides of the screen.<br>• Programs broadcast in HD formats (720p and 1080i) with 4:3 content will commonly have black bands on the left and right sides of the screen which are added by the broadcaster (see image on left).<br>• **Auto Wide** will not expand the picture when the black bands on the sides of the screen are added by the broadcaster. You can manually change the **Wide Mode** to **Wide Zoom**, or **Zoom** to fill the screen, which will remain in affect until you change the channel or input or manually change the **Wide Mode** again. |
| Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes | • This is due to the digital compression of the source content used by certain digital broadcasts and DVDs which may cause your TV's screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. These signal compressions are more visible and are dependent on the clarity and resolution of the TV. |

| Condition | Explanation/Solution |
|---|---|
| Remote control does not operate | • To determine if the problem is with the remote control or not, press a button on the TV.<br>• Check the polarity of the batteries or replace the batteries.<br>• Point the remote control at the remote control sensor located at the front of the TV.<br>• Keep the remote control sensor area clear from obstacles.<br>• Fluorescent lamps can interfere with your remote control operation; try turning off the fluorescent lamps. |
| Some digital cable channels are not being displayed | • Certain cable companies have limitations on the broadcast of digital cable channels. Check with your cable company for more information.<br>• The digital cable channel may be set to **Hidden** in the **Show/Hide Channels** setting (see page 30). |
| Some photo files are not displaying from my USB equipment | • The accessible file or folder limit in a directory is 1,000 for USB connected equipment. This limit includes non-supported files or just folders. Files or folders are populated based on their time stamps. Photo files or folders exceeding the limit will not be displayed. |
| Photo images appear small in the screen | • Set display size to expanded.<br>• Whether or not photo images can or cannot be displayed in full-screen depends on the resolution or aspect ratio of the file. |
| Photo images or folders take time to display | • Depending on the image dimension, file size, and number of files in a folder, some photo images or folders take time to display.<br>• The first time a camera is connected to the TV via USB cable, it may take up to a couple of minutes for the photos to display. |
| Lost password | • Select the **Password** settings on the **Parental Lock** settings, then enter the following master password: 4357. This password clears your previous password and allows you to enter a new password (see page 31). |
| How to reset the TV to factory settings | • Turn on the TV. While holding down ▲ on the remote control, press ⏻ on the TV. (The TV will turn itself off, then back on again.) Release ▲.<br>IMPORTANT: The reset will clear all of your customized settings including the **Parental Lock** setting. |

# Important Notices

## Declaration of Conformity

Trade Name: SONY
Model: KDL-32BX310
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo,
San Diego, CA 92127 U.S.A.
Telephone Number: 858-942-2230

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## For Customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

## FCC Related Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ❑ Reorient or relocate the receiving antenna.
- ❑ Increase the separation between the equipment and receiver.
- ❑ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ❑ Consult the dealer or an experienced radio/TV technician for help.

Pursuant to FCC regulations, you are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

## Compatible Wall-Mount Bracket Information

Use SU-WL500 Sony Wall-Mount Bracket with your TV model.

Use with other Wall-Mount Brackets may cause instability and could result in property damages or injury.

## Note

This television includes a QAM demodulator which should allow you to receive unscrambled digital cable television programming via subscription service to a cable service provider. Availability of digital cable television programming in your area depends on the type of programming and signal provided by your cable service provider.

## For Customers in the United States

The lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Telecommunications Industry Association (www.eiae.org).

## To Customers

Sufficient expertise is required for TV installations. Be sure to subcontract the installation to a Sony dealer or licensed contractor and pay adequate attention to safety during the installation.

# Specifications

| | |
|---|---|
| **System** | |
| Television system | NTSC: American TV standard<br>ATSC (8VSB terrestrial): ATSC compliant 8VSB<br>QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality) |
| Channel coverage | Analog terrestrial: 2 - 69 / Digital terrestrial: 2 - 69<br>Analog Cable: 1 - 135 / Digital Cable: 1 - 135 |
| Panel system | LCD (Liquid Crystal Display) Panel |
| Speaker output | 6 W + 6 W |
| **Input/Output jacks** | |
| CABLE/ANTENNA | 75-ohm external terminal for RF inputs |
| VIDEO IN | VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative<br>AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms |
| COMPONENT IN | YPBPR (Component Video): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / PB: 0.7 Vp-p, 75 ohms<br>PR: 0.7 Vp-p, 75 ohms / Signal format: 480i, 480p, 720p, 1080i, 1080p<br>AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms |
| HDMI IN 1/2 | HDMI: Video: 480i, 480p, 720p, 1080i, 1080p, 1080/24p<br>Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24bits, Dolby Digital<br>PC Input (see page 36) |
| DIGITAL AUDIO OUT (OPTICAL) | PCM/Dolby Digital optical signal |
| PC IN | D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive<br>See the PC Input Signal Reference Chart for PC and HDMI IN on page 36. |
| PC/HDMI IN 1 AUDIO INPUT | Stereo mini jack, 500 mVrms, (Typical) / Impedance: 47 kilohms |
| USB | JPEG |
| **Power and others** | |
| Power requirement | 120 V AC, 60 Hz |
| Power consumption<br>in use | 84 W |
| in standby | Less than 0.3 W with 120 V AC |
| Screen size<br>(inches measured diagonally) | 31.5<br>(32 class) |
| Display resolution | 1,388 dots (horizontal) × 768 lines (vertical) |
| Speaker/Full range (2) (mm)<br>(inches) | 30 × 100<br>(1 1/5 × 4) |
| Dimensions with stand (mm)<br>(inches) | 772 × 526 × 207<br>30 1/2 × 20 3/4 × 8 1/4 |
| without stand (mm)<br>(inches) | 772 × 484 × 82<br>30 1/2 × 19 1/8 × 3 1/4 |
| wall-mount hole pattern (mm) | 200 × 300 |
| wall-mount screw size (mm) | M6 (length: refer to diagram on page 37) |
| Mass with stand (kg)<br>(lb.) | 6.6<br>14.6 |
| without stand (kg)<br>(lb.) | 6.1<br>13.5 |
| Supplied accessories | Remote control RM-YD072 (1)/Size AA batteries (2)/Operating Instructions (1)/Quick Setup Guide (1)/Warranty Card (1)/Safety and Regulatory Booklet (1)/Software License (1)/Stand installation guide (1)/Table-Top Stand (1)/Screw (3)/Attachment Parts (2) |
| Optional accessories | Connecting cables / Support Belt Kit / Wall-Mount Bracket: SU-WL500 |

- Optional accessories availability depends on its stock.
- Design and specifications are subject to change without notice.

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